

REMARKS

Claim 27 has been amended. Claim 51 has been added. No new matter has been added. Claims 1-26 and 28-48 were previously canceled.

Claim 27 stands rejected under 35 U.S.C. § 102(b) as being anticipated by Troyan, US Patent No. 5,363,329 (Troyan). This rejection is respectfully traversed.

As amended, claim 27 recites an array of resistance variable memory cells comprising “at least one pillar of stacked material layers on a semiconductor substrate, the stacked layers comprising a first electrode, a chalcogenide glass material having metal ions diffused therein in contact with the first electrode and being capable of changing resistance under the influence of an applied voltage, a metal material in contact with the chalcogenide glass material, and a second electrode in contact with the metal material, the at least one pillar not located within a via.”

Troyan relates to a memory device including various layers. Troyan, however, does not disclose “a first electrode, a chalcogenide glass material having metal ions diffused therein in contact with the first electrode and being capable of changing resistance under the influence of an applied voltage, a metal material in contact with the chalcogenide glass material, and a second electrode in contact with the metal material,” as recited by claim 27. Troyan’s memory device has an entirely different structure than that recited by claim 27. For example, Troyan’s memory device includes a tellurium layer in contact with a first electrode and a dielectric layer in contact with the second electrode. For at least these reasons, withdrawal of this rejection is respectfully requested.

Claims 49 and 50 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Troyan in view of Kozicki, US Patent Application Publication No. 2003/0035315 (Kozicki). This rejection is respectfully traversed.


As discussed above, Troyan does not disclose, teach or suggest all limitations of amended independent claim 27, from which claims 49 and 50 depend. Kozicki is cited for teaching

the use of silver ions and a tungsten electrode, but does not supplement the deficiencies of Troyan.
For at least these reasons, withdrawal of this rejection is respectfully requested.

In view of the above, Applicant believes the pending application is in condition for allowance.

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Respectfully submitted,

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